

Claims 2-5 have been allowed. Claims 2-5 and 7-11 are therefore presently pending in the case. For the convenience of the Examiner, a clean copy of the pending claims is attached hereto as Exhibit A. In compliance with 37 C.F.R. § 1.121(c)(1)(ii), a marked-up copy of the original claims is attached hereto as Exhibit B.

II. Support for the Claims

New Claim 7 has been added to more clearly claim aspects of the invention. Support for this claim can be found throughout the specification as originally filed, with particular support being found at least in Claim 1 and the Sequence Listing as originally filed.

New Claims 8 and 10 have been added to more clearly claim aspects of the invention. Support for these claims can be found throughout the specification as originally filed, with particular support being found at least at page 13, lines 28-35.

New Claims 9 and 11 have been added to more clearly claim aspects of the invention. Support for these claims can be found throughout the specification as originally filed, with particular support being found at least at page 13, line 35 -page 14, line 5.

As new Claims 7-11 are fully supported by the specification and claims as originally filed, they do not constitute new matter. Entry therefore is respectfully requested.

III. Rejection of Claims Under 35 U.S.C. § 112, Second Paragraph

The Action rejects Claim 1 under 35 U.S.C. § 112, second paragraph, as allegedly being indefinite for failing to particularly point out and distinctly claim the invention. Allegedly Claim 1 is indefinite for reciting the term "at". In response, Claim 1 has been cancelled and new Claim 7 has been added which corrects this error and removes non-elected sequences thus avoiding this rejection and therefore, Applicants respectfully request withdrawal.

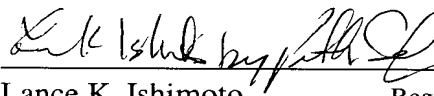
VI. Conclusion

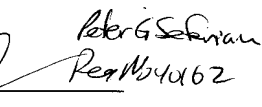
The present document is a full and complete response to the Action and accompanying Notice to Comply. In conclusion, Applicants submit that, in light of the foregoing remarks, the present case is in condition for allowance, and such favorable action is respectfully requested. Should Examiner Moore have any questions or comments, or believe that certain amendments of the claims might serve to improve their clarity, a telephone call to the undersigned Applicants' representative is earnestly solicited.

Respectfully submitted,

December 5, 2002

Date


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PATENT TRADEMARK OFFICE

Exhibit B
Marked-up Version of The Pending Claims in
U.S. Patent Application Ser. No. 09/938,330

1.(Cancelled) An isolated nucleic acid molecule comprising a nucleotide sequence encoding an amino acid sequence drawn from the group consisting of SEQ ID NOS: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, and 25.

2. An isolated nucleic acid molecule comprising a nucleotide sequence that:
- a) encodes the amino acid sequence shown in SEQ ID NO: 20; and
 - b) hybridizes under stringent conditions to the nucleotide sequence of SEQ ID NO: 19 or the complement thereof.

3. An isolated nucleic acid molecule according to Claim 2 wherein said nucleotide sequence is present in cDNA.

4. An isolated nucleic acid molecule encoding the amino acid sequence presented in SEQ ID NO:20.

5. An isolated nucleic acid molecule encoding the amino acid sequence presented in SEQ ID NO:22.

6.(Cancelled) An isolated nucleic acid molecule encoding the amino acid sequence presented in SEQ ID NO:25.

7.(New) An isolated nucleic acid molecule comprising a nucleotide sequence encoding an amino acid sequence drawn from the group consisting of SEQ ID NOS: 20 and 22.

8.(New) An expression vector comprising a nucleic acid sequence of Claim 4.

9.(New) A cell comprising the expression vector of Claim 8.

10.(New) An expression vector comprising a nucleic acid sequence of Claim 5.

11.(New) A cell comprising the expression vector of Claim 10.